

# Oracle Retail Order Broker

Installation Upgrade Guide

Release 19.0

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Oracle Retail Order Broker Installation Upgrade Guide, Release 19.0

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# Preface

The Oracle Retail Order Broker Installation Upgrade Guide describes the steps required to install the application from release 18.0 to release 19.0.

## Audience

This Installation Upgrade Guide is for the staff responsible for installing Oracle Retail Order Broker on premises.

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**Note:** These steps require working knowledge of Linux administration, Oracle database administration, and WebLogic administration.

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## Related Documents

For more information, see the following documents in the Oracle Retail Order Broker Release 19.0 documentation set:

- *Oracle Retail Order Broker Release Notes*
- *Oracle Retail Order Broker Cloud Service Online Help*
- *Oracle Retail Order Broker Store Connect Online Help*
- *Oracle Retail Order Broker Vendor Portal Online Help*
- *Oracle Retail Order Broker Vendor Integration Guide*
- *Oracle Retail Order Broker Administration Guide*
- *Oracle Retail Order Broker Operations Guide*
- *Oracle Retail Order Broker Security Guide*

See the Oracle Retail Order Broker 19.0 documentation library at the following URL:

<https://www.oracle.com/documentation/retail.html>

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**Note:** This documentation library includes documents that apply to both Oracle Retail Order Broker for installation on premise, and Oracle Retail Order Broker Cloud Service. Unless labeled specifically as documentation for Oracle Retail Order Broker (on premise), each document references the cloud product rather than the on premise product.

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- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

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<https://www.oracle.com/documentation/retail.html>

# Pre-Upgrade Tasks

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This chapter discusses the tasks to complete before upgrading from release 18.0 to 19.0, and introduces basic concepts and terms.

**Note:** Oracle Retail assumes that the retailer has applied all required fixes for supported compatible technologies.

## In this chapter:

- Prerequisites
  - Implementation Capacity Planning
  - Check Supported Database Server Requirements
  - Check Supported Application Server Requirements
  - Check Client PC and Web Browser Requirements
  - Supported Oracle Retail Products
  - Linux User Account Privileges to Install the Software
  - WebLogic User Privileges to Configure WebLogic
  - WebLogic – Oracle WebService Manager – Policy Manager
  - Other Prerequisites
- Definitions and Concepts
  - Platform
  - Domain
  - Cluster
  - ADMIN\_SERVER
  - DOMAIN\_SERVER
  - WEBLOGIC\_12c
  - DOMAIN\_FOLDER

## Prerequisites

### Implementation Capacity Planning

There is significant complexity involved in the deployment of Oracle Retail applications, and capacity planning is site specific. Oracle Retail strongly suggests that before upgrade or implementation you engage your integrator (such as the Oracle Retail Consulting team) and hardware vendor to request a disk sizing and capacity planning effort.

Sizing estimates are based on a number of factors, including the following:

- Workload and peak concurrent users and batch transactions
- Hardware configuration and parameters
- Data scarcity
- Application features utilized

Additional considerations during this process include your high availability needs as well as your backup and recovery methods.

### Check Supported Database Server Requirements

General requirements for a database server running Oracle Retail Order Broker include:

Supported On	Versions Supported
Database Server OS	Oracle Linux 7 for x86-64
Database Server 19c	Oracle Database Enterprise Edition 19c (although 12cR1 (12.1.0.2) is still supported) with the following specifications: Components: <ul style="list-style-type: none"> <li>• Oracle Partitioning</li> <li>• Examples CD</li> </ul>

### Check Supported Application Server Requirements

General requirements for running the Order Broker application include the following.

Supported On	Versions Supported
Application Server OS	Oracle Linux 7 for x86-64 (Actual hardware or Oracle virtual machine). JAVA_HOME configured
Application Server	WebLogic 12c, v12.2.1.3.0 <b>Note:</b> In v16.0, we installed WebLogic v12.2.1.0. There is no in-place upgrade to 12.2.1.3.0, so it is recommended that you perform a new install of WebLogic v12.2.1.3.0 in a separate environment. Java: latest Java 8 JDK or higher

## Check Supported Application Server Requirements for Store Connect or Supplier Direct Fulfillment Servers

Store Connect and Supplier Direct Fulfillment are optional modules. Supplier Direct Fulfillment can be installed on a separate server. General requirements for each server include the following.

Supported On	Versions Supported
Application Server OS	Oracle Linux 7 for x86-64 (Actual hardware or Oracle virtual machine). JAVA_HOME configured
Application Server	WebLogic 12c, v12.2.1.3.0 Java: latest Java 8 JDK or higher

**Note:** Store Connect and Supplier Direct Fulfillment do not require separate databases.

## Check Client PC and Web Browser Requirements

General requirements for client running Order Broker, Store Connect, or Supplier Direct Fulfillment include:

Requirement	Versions
Operating System	Windows 7, 8, or 10 <b>Note:</b> Oracle Retail assumes that the retailer has ensured its Operating System has been patched with all applicable Windows updates.
Display Resolution	1024x768 or higher
Processor	2.6GHz or higher
Memory	1 GByte or higher
Networking	Intranet with at least 10Mbps data rate
Browser	Microsoft Internet Explorer 10.0 or higher Mozilla Firefox 38.0 or higher Chrome 43.0 or higher

## Supported Oracle Retail Products

The following Oracle Retail products can be integrated with Order Broker. Each product may integrate with various pieces of Order Broker functionality and not necessarily all features available within Order Broker.

Each product is optional.

- Oracle Retail Xstore Point of Service 16.0+, 19.0
- Oracle Retail Order Management System Cloud Service 16.0+, 19.0

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The above products can be installed before or after Order Broker. However, it is helpful to know the connection details for the other products when configuring Order Broker.

### Linux User Account Privileges to Install the Software

A Linux user account is needed to install the software. The Linux user that is used to install the software should have write access to the Installation directories.

### WebLogic User Privileges to Configure WebLogic

The user who configures the application in the WebLogic console must have read/write/execute authority in the WebLogic domain.

### WebLogic – Oracle WebService Manager – Policy Manager

The OWSM Policy Manager must be installed with the domain.

### Other Prerequisites

Order Broker 18.0 requires Web Logic server 12.2.1.3 with patch p28387681 installed on it. Patch p28387681 is available at [https://bugsftp.us.oracle.com/bug/filedownloadervlet?bug=28387681&FileName=p28387681\\_122130\\_Generic.zip](https://bugsftp.us.oracle.com/bug/filedownloadervlet?bug=28387681&FileName=p28387681_122130_Generic.zip). Please install the patch before starting Order Broker application setup.

Coherence must be installed in the domain.

A BI Publisher instance must be set up.

## Supported Oracle Retail Products

The following Oracle Retail products can be integrated with Order Broker. Each product may integrate with various pieces of Order Broker functionality and not necessarily all features available within Order Broker.

Each product is optional.

- Oracle Retail Xstore Point of Service 16.0+, 19.0
- Oracle Retail Order Management System Cloud Service 16.0+, 19.0

The above products can be installed before or after Order Broker. However, it is helpful to know the connection details for the other products when configuring Order Broker.

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## Definitions and Concepts

### Platform

Starting with release 18.0, Order Broker uses the WebLogic 12c (version 12.2.1.3.0) platform.

### Domain

The Order Broker application suite will be deployed under a WebLogic **Domain**.

A domain is an interrelated set of WebLogic Server resources managed as a unit. A domain includes one or more administration servers and managed servers. Various clients use the administration server to configure the system. The managed server is used to run actual applications.

A domain includes one or more WebLogic Server instances, which can be clustered, non-clustered, or a combination of clustered and non-clustered instances.

### Cluster

The Order Broker application suite will be deployed within a WebLogic **Cluster**.

The Order Broker application suite, along with configuration including Data Sources, is replicated to participating servers in the WebLogic cluster.

The Order Broker application suite only has to be deployed on a single server in the cluster as part of the installation process.

A cluster is part of a particular WebLogic Server domain.

### ADMIN\_SERVER

The Order Broker application suite will be deployed using WebLogic's Administration Server. The application server can be accessed by a web browser, and requires a user ID and password to log in.

Typically, the Administration server is accessed on port 7002, for example:

```
http://your_weblogic_server.us.oracle.com:7002/console
```

Domains include a special WebLogic Server instance called the Administration Server, which is the central point from which you configure and manage all resources in the domain. Usually, you configure a domain to include additional WebLogic Server instances called Managed Servers.

### DOMAIN\_SERVER

The Order Broker application suite will be deployed using WebLogic's Administration Server and run under the **Domain Server**. The Order Broker application suite **is not** deployed under the **Administration Server**, since other applications could be deployed with other Domains. Each server with the **cluster** will have a **Domain Server**.

### WEBLOGIC\_12c

You will need to know your root installation path for WebLogic in order to perform the installation process.

## DOMAIN\_FOLDER

This is the root folder of the domain.

# Upgrade Steps

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The following basic steps are required to upgrade Oracle Retail Order Broker from 18.0 to 19.0.

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**Note:** These steps require working knowledge of Linux administration, Oracle database administration, and WebLogic administration.

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## Before You Start

### Java JDK:

The Java 8 JDK or higher must be installed on the application server, and JAVA\_HOME must be configured.

### Database Connection Information:

Prior to beginning the upgrade process, *you* must source the credentials for the following database connections:

- Order Broker Database
- Proximity Database
- Order Broker Admin Database

**For more information:** See the [Pre-Upgrade Tasks](#).

**Download the upgrade package:** The upgrade package is available on the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/osdc/faces/Home.jsp>). Search for Oracle Retail Order Broker on the Linux platform to find and download the upgrade package.

### In this chapter:

- [Upgrade Databases](#)
- [Order Broker Application](#)
- [Validate the Installation](#)
- [Store Connect Installation](#)
- [Supplier Direct Fulfillment \(Vendor Portal\) Installation](#)

## Upgrade Databases

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**Note:** Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

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**Script editor:** Make sure you open scripts in an editor that can read and support UTF-8 encoding, since some scripts contain double-byte data.

**Spool output:** Make sure you spool your console output to a file so any errors can be investigated.

**Before you begin:**

- Complete the [Pre-Upgrade Tasks](#).
- Back up the databases.
- Stop all Order Broker services.

The Order Broker database is made up of two databases with three user / schemas. The Order Broker Upgrade contains a Database folder with SQL scripts for upgrading the database objects and data. They can be used to complete the following database setup tasks.

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**Important:** The scripts mentioned below are designed to run in SQL\*Plus.

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**Script editor:** Make sure you open scripts in an editor that can read and support UTF8 encoding, since some scripts contain double-byte data. Also, when running SQL\*Plus, make sure the NLS\_LANG parameter is set.

Windows: SET NLS\_LANG=AMERICAN\_AMERICA.AL32UTF8

Linux: export NLS\_LANG=AMERICAN\_AMERICA.AL32UTF8

**Spool output:** Make sure you spool your console output to a file so any errors can be investigated.

1. In the **ORDER\_BROKER** database, logged in as the **ORDER\_BROKER** user, run the following scripts found in <root path>/<Upgrade>/Database/.
  - Run the Order\_Broker\_schema\_v18\_1\_changes script
  - Order\_Broker\_schema\_v18\_2\_changes script
  - Order\_Broker\_schema\_v19\_0\_changes script
2. Also in the **ORDER\_BROKER** database, logged in as the **ORDER\_BROKER\_ADMIN** user (**Note:** This is not the ORDER\_BROKER user from the previous step), run the Order\_Broker\_Admin\_schema\_v17.0\_changes.sql script.
3. Connect as sysdba run the following commands to recompile the stored procedures:

```
EXEC UTL_RECOMP.recomp_serial('ORDER_BROKER_ADMIN');
```

```
EXEC UTL_RECOMP.recomp_serial('ORDER_BROKER');
```

```
EXEC UTL_RECOMP.recomp_serial('PROXIMITY');
```

4. **SET THE DATABASE TIMEZONE:** Set the database server time zone to UTC, or the same as the App server time zone.

## Order Broker Application

**Before you begin:** See the [Pre-Upgrade Tasks](#).

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**Important:** File names, folder names, and commands on the Linux server are case-sensitive. While completing the following steps, confirm that the case is correct.

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**Important:** You should use a text editor on a Linux machine rather than on a Windows machine to update any text files, XML files, or properties files.

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### Set up the Order Broker Tenant Configuration

This step sets up the tenant configuration information in the Admin database,

1. Copy files from the OrderBrokerTenant folder Install/Order Broker/OrderBrokerTenant to the app server.
2. Navigate to the OrderBrokerTenant folder on the app server.
3. Execute the following single-line command, replacing the variables with the appropriate values:

```
%JAVA_HOME%/bin/java -cp ojdbc8.jar:OrderBrokerTenant.jar
com.oracle.orderbroker.tenant.OrderBrokerTenant
jdbc:oracle:thin:%HOST_NAME% %ADMIN_DATABASE_USER_NAME%
%ADMIN_DATABASE_USER_PASSWORD%
%PATH%/OrderBrokerTenant/tenant-config.properties
```

Where:

- %JAVA\_HOME% = Path to the java JDK
  - %HOST\_NAME% = Oracle database host name, in the form @//HOST:PORT/SERVICE
  - %ADMIN\_DATABASE\_USER\_NAME% = Order Broker Admin database user id
  - %ADMIN\_DATABASE\_USER\_PASSWORD% = Order Broker Admin database user password
  - %PATH% = Path to the OrderBrokerTenant folder on the app server
4. The command should return Tenant updated successfully. Any other message or error should be investigated.

### Install the Application

Order Broker 18.0 requires WebLogic server 12.2.1.3 with patch p28387681 installed on it. Patch p28387681 is available at

[https://bugsftp.us.oracle.com/bug/filedownloadervlet?bug=28387681&FileName=p28387681\\_122130\\_Generic.zip](https://bugsftp.us.oracle.com/bug/filedownloadervlet?bug=28387681&FileName=p28387681_122130_Generic.zip). Please install the patch before starting Order Broker application setup.

1. Shut down the WebLogic admin and managed servers.

2. Copy the following folders and files from the `/Order Broker/WebLogic` install folders.

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**Note:** These configuration steps, with the exception of the `Locate.ear` deployment and Data Sources setup, must be repeated on all the servers in the cluster. The `Locate.ear` is installed in the Admin console of WebLogic, which distributes it to every server in the cluster.

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3. Copy the `Locate.ear` from the `Deployments` folder to a staging area on the same server as WebLogic, to deploy later to the cluster in WebLogic. This step is not required on all servers in the cluster. The `Locate.ear` is installed in the Admin Console in WebLogic, which distributes it to every server in the cluster.
4. Create a `conf` folder in `<WEBLOGIC_12C>/<DOMAIN_FOLDER>`
  - Copy the contents of the `/Order Broker/Weblogic/conf` from the installation to `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf` :
  - Give full rights to the `conf` folder for the application service profile.
5. Create the folder `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/logs`.
  - Give full rights to the `logs` folder for the application service profile.
6. Create the `/${DOMAIN_HOME}/info/heaps` and the `/${DOMAIN_HOME}/info/gc` directories, so that WebLogic can read and write to this directory.
7. Copy the Gurobi runtime files to the server.
  - Make the following directory: `/usr/share/gurobi`
  - Copy the following files from the `/Order Broker/Gurobi` directory to the `/usr/share/gurobi` directory:
    - `libgurobi65.so`
    - `libGurobiJni65.so`
  - Give full rights to the `gurobi` folder for the application service profile.
8. Copy the `locateProvider.jar` from the `/Order Broker/Weblogic/Authentication` install folder to `<WEBLOGIC_12c>/products/wls_1221/wlserver/server/lib/mbeantypes`.
9. Give full rights to the `wlserver/server/lib/mbeantypes` folder for the application service profile.

## Edit Configuration Files and Set Up Data Folders

1. Open the `sp-policies.properties` file you just copied to `WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/security` and change the `pepper-file-path` setting to the new WebLogic installation path:
 

```
pepper-file-path=
<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/security/password_pepper.
properties
```

---

**Note:** In these instructions, `<WEBLOGIC_12c>` should be substituted with the root Weblogic Installation path, and `<DOMAIN_FOLDER>` should be substituted with your domain folder.

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2. Copy the `password_pepper.properties` file from the existing v16.0 app server to the `/server/conf/security` folder on the new v18.0 app server.
3. Set up application data folders:

Create the following folder structure:

- `/usr/share/OrderBroker/data`
- `/usr/share/OrderBroker/data/ProductUploadData`
- `/usr/share/OrderBroker/data/ExportData`
- `/usr/share/OrderBroker/data/ProximityUploadData`

Create the `SDFUploadData` folder under `/usr/share/OrderBroker/SDFUploadData`.

Assign full rights to these folders.

4. Locate the `config.xml` file in your WebLogic installation (`<WEBLOGIC_12c>/<DOMAIN_FOLDER>/config/config.xml`) and open it in a Linux-compatible text editor:

Insert the bolded line below between two existing lines:

```
<node-manager-username>weblogic</node-manager-username>
<node-manager-password-encrypted>
{AES}MfEXnREGR45R6aaHeny7zjChqb1234567890123=
</node-manager-password-encrypted>
<enforce-valid-basic-auth-credentials>false</enforce-valid-
basic-auth-credentials>
<use-kss-for-demo>true</use-kss-for-demo>
</security-configuration>
```

5. The OB custom configuration has been moved from `setDomainEnv.sh` to the `setUserOverrides.sh` file. Navigate to `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/bin/ folder`, copy `/OrderBroker/Weblogic/bin/setUserOverrides.sh` file to the `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/bin folder`.

Search for `DOMAIN_HOME` and replace it with the actual domain home value.

Search for `SERVER_NAME` and replace it with the server name.

\*\*\* You may need to update proxy setting in setUserOverrides.sh to the JAVA\_OPTIONS based upon you local configuration \*\*\*

6. Navigate to <WEBLOGIC\_12c>/<DOMAIN\_FOLDER>/bin/ setDomainEnv.sh and open the setDomainEnv.sh file in a Linux-compatible text editor.

Locate this argument at the top of the file: Remove this line:

```
USER_MEM_ARGS="-Xms768m -Xmx4096m -Duser.timezone=UTC"
```

Remove the following java\_options. JAVA\_OPTIONS have been moved to the setUserOverrides.sh file.

```
JAVA_OPTIONS="{JAVA_OPTIONS} -
Dlocate.uri=https://your_weblogic_server.domain.com:<port> -
Duser.timezone=UTC -
Dlog4j.configurationFile=${DOMAIN_HOME}/conf/log4j2.xml -
Dtangosol.coherence.cacheconfig=${DOMAIN_HOME}/conf/coherence
-cache-config.xml -
Dtangosol.coherence.distributed.localstorage=true -
Dcoherence.localport=59004 -Dcoherence.localport.adjust=59005
```

```
-Xloggc:${DOMAIN_HOME}/info/gc/gc.log -XX:+PrintGC
XX:+PrintGCTimeStamps -XX:+PrintGCDetails
XX:+PrintTenuringDistribution -XX:-UseGCLogFileRotation
XX:NumberOfGCLogFiles=10 -XX:GCLogFileSize=2000K

XX:+HeapDumpOnOutOfMemoryError
XX:HeapDumpPath=${DOMAIN_HOME}/info/heapdump

export JAVA_OPTIONS
```

7. Also in the setDomainEnv.sh file, add the following entry  
PATCH\_LIBPATH=/usr/share/gurobi:\$PATCH\_LIBPATH
8. Repeat the above steps for all servers in the cluster.

## Use the WebLogic Console to Configure the Application

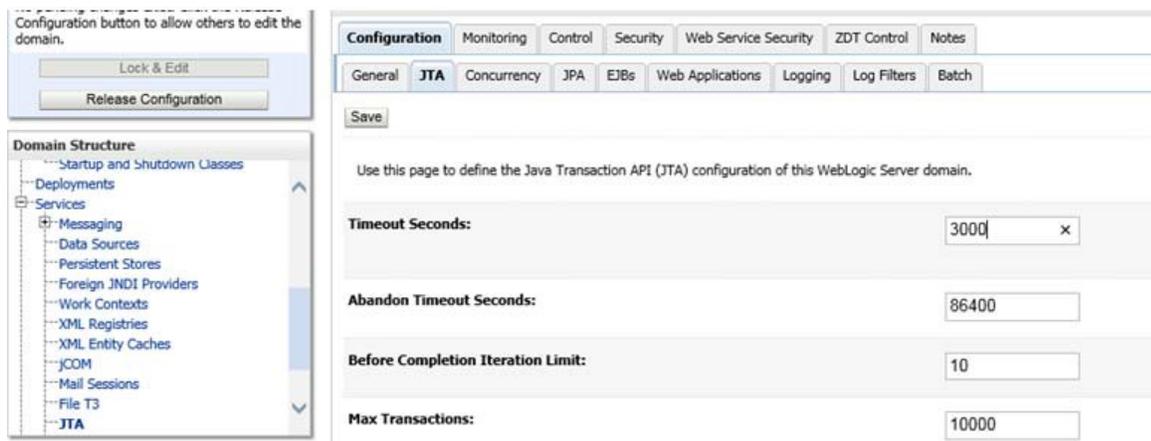
1. Start up all the WebLogic servers.
2. In the WebLogic console, set up *Timeout Seconds* for Order Broker database transactions:
  - Under the left navigation pane for **Domain Structure**, advance to <DOMAIN\_FOLDER> > **Services** > **JTA**.
  - Enter 3000 in *Timeout Seconds*.
  - Click **Save**.

---

**Note:** You may need to select **Lock & Edit** to update Transaction Seconds. If so, you may need to select **Activate Changes**.

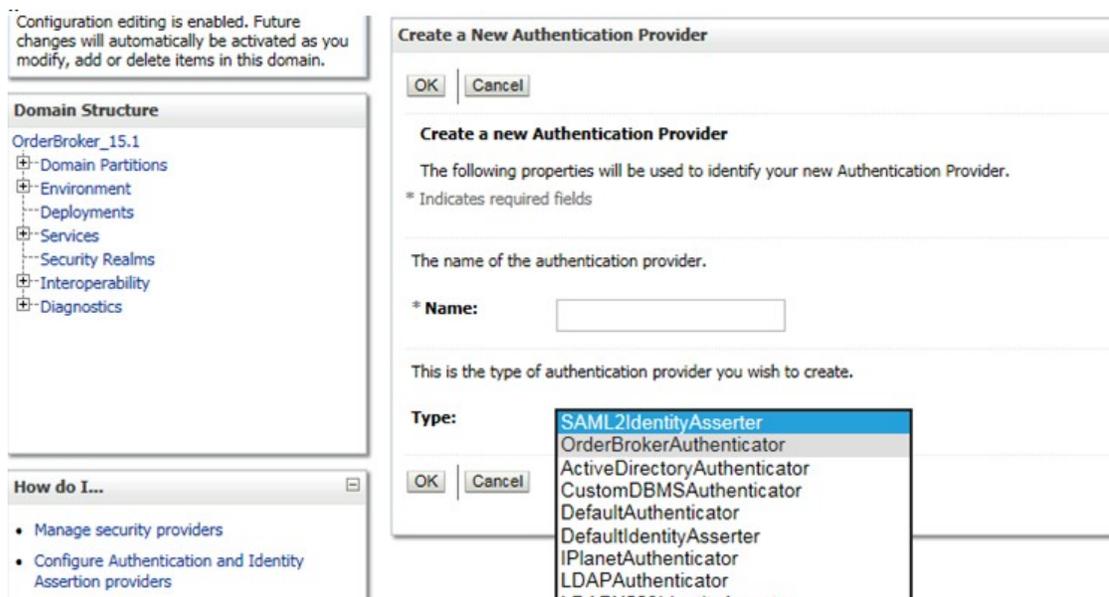
---

You should see a message: **Settings updated successfully.**



3. Set up the Security Realm for WebLogic JAAS authentication:
  - Under **Domain Structure** on the left, select **Security Realms**.
  - Select **myrealm**.
  - On the top row of tabs, select the **Providers** tab.
  - Select **DefaultAuthenticator**.
  - Set **Control Flag** to **SUFFICIENT**, if it is not already.
  - Select **Save**.
  - Go back to **myrealm**.
    - \* Under **Domain Structure** on the left, select **Security Realms**.
    - \* Select **myrealm**.
  - On the top row of tabs, select the **Providers** tab.
  - Select **New** to create a new provider.

- Enter **Order Broker** as the **Name** and select **OrderBrokerAuthenticator** from the drop-down list:



- Select **OK** to add the provider.
  - You should return to the **Provider** screen. Select the newly created **Order Broker** link.
  - Confirm that **Control Flag** is set to **SUFFICIENT**.
  - Select the **Provider Specific** tab at the top of the screen.
  - In the **Rest URL** field, confirm that the current server name and port are entered.
  - Select **Save**.
  - You should see a message indicating that the change has been saved.
  - Restart all the managed servers.
4. Set up the application Data Sources. To create Data Sources, log into the Administration Console of WebLogic.
    - Under the left navigation pane for Domain Structure, advance to **<DOMAIN\_FOLDER> > Services > Data Sources**.
    - Select the **Data Sources** link in the navigation tree.
    - You need to create the following Data Sources:

Data Source Name	JNDI Name	jtaManaged	Supports Global Transactions	DB user
LocateAdminDatasource	LocateAdminDatasource		FALSE	ORDER_BROKER_ADMIN
LocateAdminNoTxDataSource	LocateAdminNoTxDataSource	jtaManaged=false	FALSE	ORDER_BROKER_ADMIN

LocateAdminTenant1	LocateAdminTenant1		TRUE	ORDER_BROKER_ADMIN
LocateDatasource	LocateDatasource		FALSE	ORDER_BROKER
LocateNoTxDatasource	LocateNoTxDatasource	jtaManaged=false	FALSE	ORDER_BROKER
LocateTenant1Datasource	Tenant1		TRUE	ORDER_BROKER
LocateTenant1NoTxDatasource	Tenant1NoTx	jtaManaged=false	FALSE	ORDER_BROKER
ProximityDatasource	ProximityDatasource		FALSE	PROXIMITY
ProximityNoTxDatasource	ProximityNoTxDatasource	jtaManaged=false	FALSE	PROXIMITY
ProximityTenant1Datasource	ProxTenant1		TRUE	PROXIMITY
ProximityTenant1NoTxDatasource	ProxTenant1NoTx	jtaManaged=false	FALSE	PROXIMITY

The target should be the **cluster-name** and the scope should be **Global**.

**Example:** To map each of the required data sources:

- \* Select **New**.

---

**Note:** Selecting **Lock & Edit** may be required to select **New**.

---

- \* Select **Generic Data Source** under the **Summary of JDBC Data Sources** panel on the **Configuration** tab.
- \* Enter the Data Source name, such as `LocateDatasource`, into **Name** field. See the list above for the six Data Sources you need to create.
- \* Leave the **Scope** set to **Global**.
- \* Enter the Data source name, such as `LocateDatasource`, into the **JNDI Name** field.
- \* Leave the **Database Type** set to **Oracle** and select **Next**.
- \* Set the **Database Driver** to **\*Oracles's Driver Thin for pooled instance connections; Version Any**.

---

**Note:** This is NOT the default setting.

---

- \* Select **Next**.
- \* Leave **Options** set to the defaults unless Supports Global Transactions for the data source is false. If so uncheck the Supports Global Transactions and select **Next**.
- \* Set the **Database Name** to `<SERVICENAME>`, for example `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.

- \* Set the **Host Name** to <HOSTNAME>, for example  
jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>.
- \* Set the **Port** to the number before the forward slash, for example  
jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>.
- \* Set the **Database User Name** to the user name in the table based upon the data source..
- \* Set **Password/Confirm Password**.
- \* Select **Next**.
- \* Select **Test Configuration**.
- \* If the message **Connection test succeeded** displays, then select **Next**. Otherwise, select **Back** and correct the connection information.
- \* On the **Targets** tab, select the top check box under clusters:
 

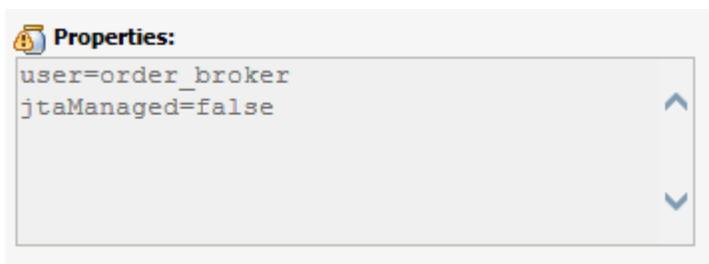
Clusters

cluster-name

All servers in the cluster
- \* Select **Finish**.

The data source will now be displayed in the table.

- \* Select the Data Source by clicking on the **Link** under **Name** in the table.
- \* For the Data Sources where jtaManaged=false select the Connection Pool tab and add the jtaManaged=false to the properties as in the following illustration:



- \* Select **Connection Pool**. Settings:
  - Initial Capacity*= InitialLimit=25
  - Maximum Capacity*= MaxLimit=200
  - Minimum Capacity*= MinLimit=10
  - Statement Cache Size to 64
- \* Select **Save**.
- \* You should see the message Settings updated successfully.

For each Data Source:

- i. Click Advanced at the bottom of the Connection Pool page to expand the section

Enable (check) the Test Connections on Reserve option

Disable (uncheck) the Wrap Data types option

- ii. Click the Save button.

---



---

**Note:** You may need to select **Lock & Edit** to update Transaction Seconds. If so, you may need to select **Activate Changes**.

---



---

Repeat these steps for the five remaining DataSources. See [step 4](#) for the list of Data Sources you need to create, and the users for each Data Source.

---



---

**Note:** These Data Sources will deploy to all other servers in the cluster, so you do not need to repeat these steps for the remaining servers in the cluster.

---



---

### Configure server Self Tuning Thread Minimum Pool Size

Follow below steps to update thread minimum pool size for each managed server.

- On the Web Logic console navigate to: Environment -> Server > Server name > Tuning > Advanced > Self Tuning Thread Minimum Pool Size.
- Set the value to 20.
- On the Web Logic console navigate to: Environment -> Servers > Server name > Configuration tab > Tuning Sub Tab > Advanced > Self Tuning Thread Maximum Pool Size.
- Set the value to 800.

Create new Work Manager:

- On the Web Logic console navigate to: Environment > Work Managers > New > Work Manager > ob cluster (named "default") (edited).

Create new Maximum Thread Constraint:

- On the Web Logic console navigate to:  
Environment > Work Managers > New > Maximum Thread Constraint > ob cluster (named "MaxThreads" and count = 400).

## Set Up Coherence

1. Under the left navigation pane, click **Coherence Clusters** under **Environment**.

---



---

**Note:** This step needs to be done only once on the Admin server.

---



---

2. If you see defaultcoherence in the summary of coherence clusters, follow the steps below to remove the defaultcoherence cluster.
  - Go to Environment -> Coherence Clusters -> default coherence cluster -> members tab. Uncheck servers and clusters if they are checked, and click save.
  - Go to Environment -> Coherence Clusters -> default coherence cluster. Select defaultcoherencecluster and delete it.

3. Click **New** to create a new Coherence Cluster:

Home > Summary of Coherence Clusters

### Summary of Coherence Clusters

Coherence provides replicated and distributed data management and caching services that you WebLogic Server retains configuration information used to locate and communicate with a Coherence cluster.

This page displays the Coherence cluster configurations that have been created in this domain.

[Customize this table](#)

#### Coherence Clusters (Filtered - More Columns Exist)

<input type="checkbox"/>	Name	Logging Enabled
		TI

4. Enter OrderBroker as the **Name** of the Coherence Cluster, and select **Next**.

Home > Summary of Coherence Clusters

### Create a Coherence Cluster Configuration

#### Coherence Cluster Properties

The following properties will be used to identify your new Coherence cluster configuration.

\* Indicates required fields

What would you like to name your new Coherence cluster configuration?

\* **Name:**

Coherence clusters can be configured externally in a custom configuration file or configured within WebLogic Server configuration file. The values in this file will override any values set at the Coherence cluster level.

**Use a Custom Cluster Configuration File**

5. Set the Coherence Cluster Addressing.

Home > Summary of Coherence Clusters

### Create a Coherence Cluster Configuration

Back Next Finish Cancel

#### Coherence Cluster Addressing

This page indicates how this Coherence cluster will be located.

How should this Coherence cluster be addressed?

**Clustering Mode:** Multicast

**Cluster Listen Port:** 7574

**Multicast Listen Address:**

Back Next Finish Cancel

Be very careful when entering the **Multicast Listen Address**.

Make sure only the servers for the version 18.0 Order Broker instance have the same multicast address.

**DO NOT USE THE SAME MULTICAST ADDRESS AS A PREVIOUS VERSION OF ORDER BROKER**

Multicast Listen Address should be in the range of standard multicast IP addresses.

6. Select **Next**.
7. Set all the cluster members and select **Finish**.

- Go back and re-select the OrderBroker cluster.

Home > Summary of Coherence Clusters > OrderBroker > Summary of Coherence Clusters

### Summary of Coherence Clusters

Coherence provides replicated and distributed data management and caching services that you can use. The WebLogic Server retains configuration information used to locate and communicate with a Coherence cluster.

This page displays the Coherence cluster configurations that have been created in this domain.

[Customize this table](#)

**Coherence Clusters (Filtered - More Columns Exist)**

<input type="checkbox"/>	Name	Logging Enabled
<input type="checkbox"/>	OrderBroker	true

- On the General tab, confirm the transport is set to UTP and Time to Live is set to 1, and press SAVE.
- Set up the Caches for the Cluster:
  - Click on **Cache Configuration**.
  - Click **New**.
  - Enter **Near Cache** as the Name.
  - The JNDI Name must be **NEAR**.
  - Enter the full path to the configuration file  
`%DOMAIN_HOME%\conf\coherence-cache-config.xml`, replacing  
`%DOMAIN_HOME%` with the path to the domain.

- Click **Next**.

Oracle WebLogic Server Administration Console 12c

Home > Summary of Coherence Clusters > OrderBroker > Near Cache

Settings for Near Cache

Configuration Targets

Save

Use this page to configure properties for this Cache Configuration.

Name: Near Cache

JNDI Name: NEAR

Cache Configuration File: C:\Weblogic\_12212\user\_projects\domains\OrderBrok...

Import Configuration File

Save

Domain Structure

OrderBroker\_16.1

- Domain Partitions
- Environment
  - Servers
  - Clusters
  - Coherence Clusters
  - Resource Groups
  - Resource Group Templates
  - Machines
  - Virtual Hosts
  - Virtual Targets
  - Work Managers
  - Concurrent Templates
  - Resource Management

How do I...

- Create cluster cache configurations
- Configure Coherence clusters

System Status

Health of Running Servers as of 3:35 PM

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

WebLogic Server Version: 12.2.1.2.0  
Copyright (c) 1996-2016, Oracle and/or its affiliates. All rights reserved.

## 11. For each server in the cluster, assign the coherence cluster.

- Click on **Servers** under **Environment**.
- Select each server:
  - \* Click on the Coherence tab.
  - \* Select **OrderBroker** for the Coherence Cluster.
  - \* Click **Save**.

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Concurrency Health Monitoring Server Start Web Services **Coherence**

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

Save

Use this page to configure this server instance as a Coherence cluster member by selecting the Coherence cluster that it belongs to. After this configuration is saved, you can configure Coherence cluster member properties.

Coherence Cluster: OrderBroker

Unicast Listen Address:

Unicast Listen Port: 0

Unicast Port Auto Adjust

Site Name:

Rack Name:

- \* Repeat this step for all servers in the Server cluster.
- \* Restart all servers in the cluster.

## BI Publisher Setup

1. Log into the BI application console.
2. Create data source, following the steps below.
  - Click on the Administration link on the top right-hand side, as shown below.



- On the Administration page, click the JDBC Connection under Data Sources, as shown below.



- Click the Add Data Source button, as shown below.



- Add Data Source is displayed, as shown below.

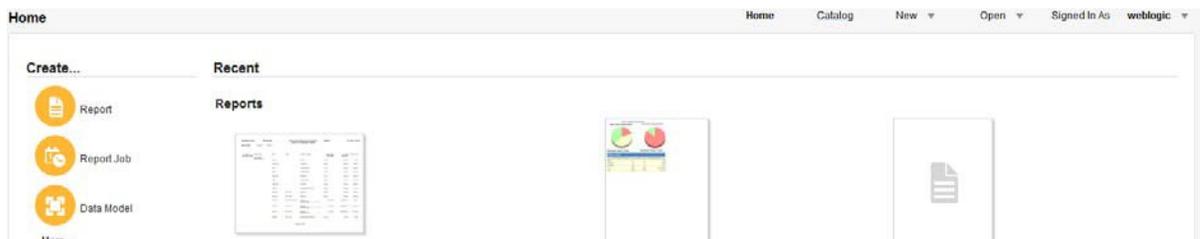
Administration > JDBC > Add Data Source

 This screenshot shows the 'Add Data Source' configuration page. At the top right is an 'Apply' button. The page is titled 'General' and contains several fields and checkboxes:
 

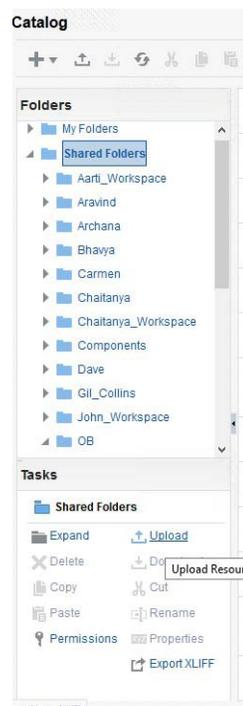
- \* Data Source Name: A text input field.
- \* Driver Type: A dropdown menu showing 'Oracle 12c'.
- \* Database Driver Class: A text input field with 'oracle.jdbc.OracleDriver' and a hint '(Example: oracle.jdbc.OracleDriver)'.
- \* Connection String: A text input field with 'jdbc:oracle:thin:@[host]:[port]:[sid]' and a hint.
- Use System User: A checkbox that is currently unchecked.
- \* Username: A text input field.
- Password: A text input field.
- Pre Process Function: A text input field.
- Post Process Function: A text input field.
- Use Proxy Authentication: A checkbox that is currently unchecked.
- A 'Test Connection' button at the bottom.

- Enter "ob\_ds" as datasource name. Don't use any other name other than ob\_ds.
- Enter the connection string, such as "jdbc:oracle:thin:@databasehostname:1521/databaseName"

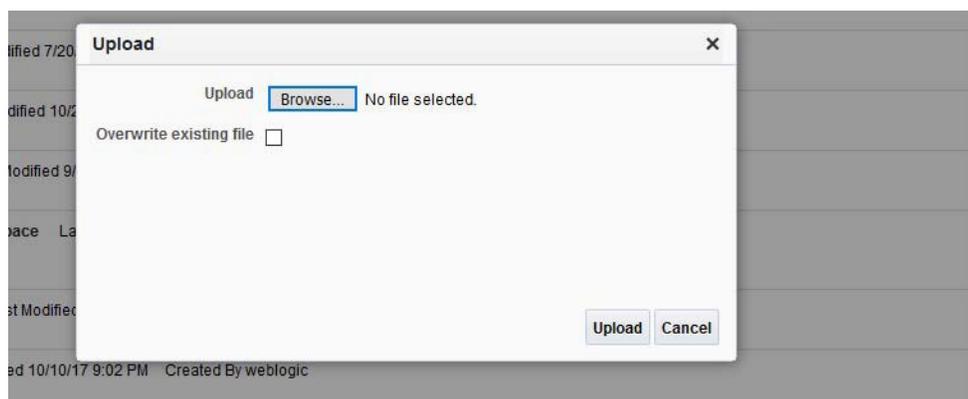
- Enter the user\_name and password.
  - Leave other fields as is.
  - Click Test connection to make sure that the data source set up is successful.
  - Click the Apply button on the top right-hand side to save the data source.
- 3. Report Deployment:** The reports zip file must be manually uploaded to the BI Publisher Application. The zip file extension will be .xdrz.
- Follow the steps below to upload the Install\Order Broker\BI Publisher\OB.xdrz file onto the BI Publisher Application.
  - Log into the BI Publisher application.
  - Click the Catalog link on the top right-hand side, as shown below.



- Click the Upload button the bottom left-hand side, as shown below.



- A browse window opens as shown below. Click the Browse button to select the OROB.xdrz file.



- Click the Upload button to upload the reports under the OROB folder. After the upload is complete, navigate to the OROB folder and make sure that you see datamodels, reports, and subtemplates folders.

## Font Installation

A barcode font and other language fonts comes with the BI server installation. Check to see if you have fonts available in `/scratch/u01/product/fmw/wls_obiee/bi/common/fonts`. If you don't already have fonts, copy fonts from `Install\Order Broker\BI Publisher\Fonts` onto the BI App Server under `/scratch/u01/product/fmw/wls_obiee/bi/common/fonts`.

## Creating a Font Mapping

From the Administration page, under Runtime Configuration, select Font Mappings. Create Font mapping for Code 128 and ALBANWTJ using the steps below.

1. Under RTF Templates, select Add Font Mapping.
2. Enter the following on the Add Font Mapping page:
  - Base Font — enter the font family to map to a new font. For example, Arial.
  - Select the Style: Normal or Italic (Not applicable to PDF Template font mappings).
  - Select the Weight: Normal or Bold (Not applicable to PDF Template font mappings).
  - Select the Target Font Type: TrueType.
  - Enter the Target Font : Select the font that you are trying to create a font mapping.

**Note:** Make sure the Application server which is hosting the BI instance is in the same time zone (UTC) as the Order Broker app server.

## Set Up the Order Broker Tenant Configuration for BI Publisher

This step sets up the tenant configuration information in the Admin database for BI Publisher.

1. Copy files from the OrderBrokerTenant folder Install/Order Broker/OrderBrokerTenant to the app server.
2. Navigate to the OrderBrokerTenant folder on the app server.
3. Update the tenant-config.properties file with the appropriate entries.

bi\_pub\_client\_id=

bi\_pub\_client\_secret=

bi\_pub\_url=

bi\_pub\_report\_path=

Where :

bi\_pub\_client\_id is the BI pub user id. Same value that is used to login into BI web application

bi\_pub\_client\_secret= is the BI pub password. Same value that is used to login into BI web application

bi\_pub\_url= <http://biserverhostname:port>/xmlpserver/services/rest/v1/reports'

bi\_pub\_report\_path=OB/reports/

4. Execute the following single-line command, replacing the variables with the appropriate values:

```
%JAVA_HOME%/bin/java -cp ojdbc8.jar:OrderBrokerTenant.jar
com.oracle.orderbroker.tenant.OrderBrokerTenant
jdbc:oracle:thin:%HOST_NAME% %ADMIN_DATABASE_USER_NAME%
%ADMIN_DATABASE_USER_PASSWORD%
%PATH%/OrderBrokerTenant/tenant-config.properties
```

Where:

- %JAVA\_HOME% = Path to the java JDK
- %HOST\_NAME% = Oracle database host name, in the form @//HOST:PORT/SERVICE
- %ADMIN\_DATABASE\_USER\_NAME% = Order Broker Admin database user id
- %ADMIN\_DATABASE\_USER\_PASSWORD% = Order Broker Admin database user password
- %PATH% = Path to the OrderBrokerTenant folder on the app server

The command should return the message Tenant updated successfully. Any other message or error should be investigated.

## Deploy the Locate.ear from the Staging Area to the Cluster

As mentioned above under [Install the Application](#) on page 3, you now need to deploy the Locate.ear to the Cluster in WebLogic.

1. Log into the Administration Console of WebLogic.
2. Under the left navigation pane for Domain Structure:

- Select **Deployments**.
- Select **Lock & Edit** if needed to enable the **Install** button.
- Select **Install**.
- Under the **Path**, select the staging area where you placed the `Locate.ear` from the `Deployments` folder and select **Next**.
- The screen refreshes and displays the `Locate.ear`.
- Select the radio button under **Current Location** to select the `Locate.ear` and select **Next**.
- Leave the default: **Install this deployment as an application**.
- Select the **cluster-name** checkbox as shown and All servers in the cluster for radio button:

Clusters

cluster-name

All servers in the cluster

- Select **Next**.
- Select **Finish**.
- Select **Release Configuration** if you had selected **Lock & Edit**; otherwise, select **Active Changes**.

**3.** You must now enable the Order Broker application to deployment to start servicing all requests.

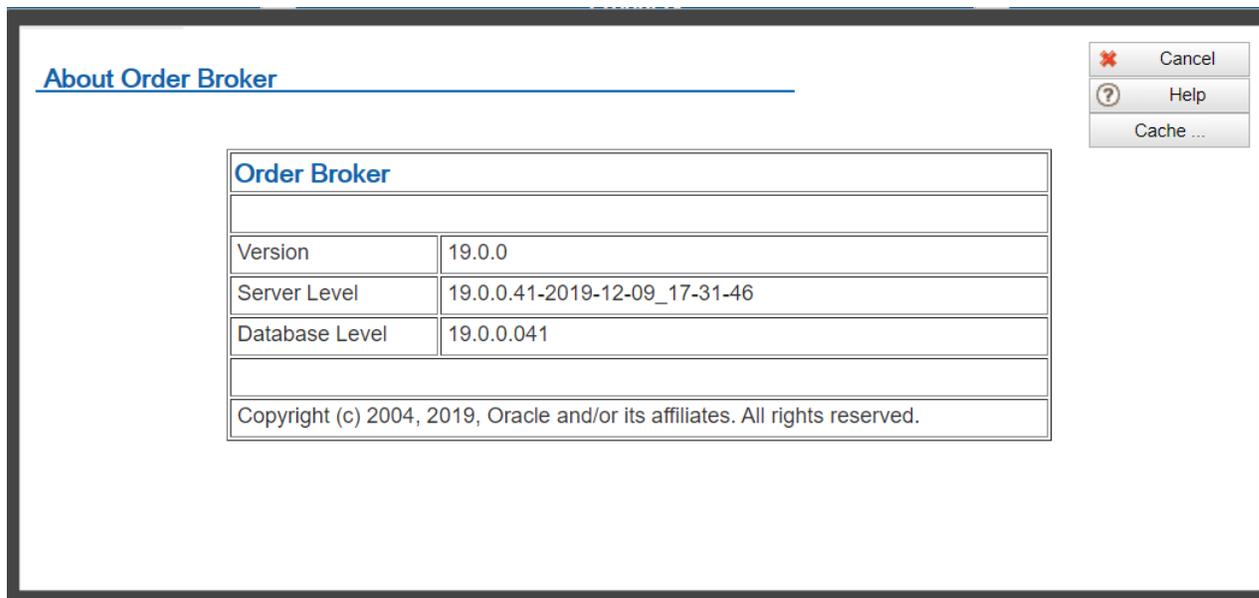
- Select the **Control Tab** under **Summary of Deployments**.
- Select the **Locate** checkbox.

Deployments	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> Servicing all requests <small>Servicing only administration requests</small>	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	
<input type="checkbox"/> ORMS Application (12.2.1.0.0)	Active	OK	Web Application	AdminServer, self-cluster	Global	
<input type="checkbox"/> ors	Active	OK	Enterprise Application	AdminServer	Global	
<input checked="" type="checkbox"/> Locate	Active	OK	Enterprise Application	self-cluster	Global	
<input type="checkbox"/> LocateSTC	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> LocateVPA	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> ops-rest	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/> state-management-provider-memory-rar	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	

- Select the **Start** button.
- Select **Start/Servicing all requests**.

## Validate the Installation

1. Launch the application using the following URL:  
`https://server:port/LocateUI`  
Where `server:port` is the IP address and port of the Order Broker server.
2. Log in using the Admin User.
3. From the **Systems** menu, select **About Order Broker**.
4. At the **About Order Broker** window, confirm that the levels are correct.



5. Select **Cache...** from the **About Order Broker** window and confirm that all servers are listed correctly.

## Configure the Installation

1. From the menu, navigate to the **Tenant Screen (System > Tenant)**.

2. Configure the settings based upon your requirements. See the online help or the Administration Guide for details.

Tenant 

**Tenant - Admin**

---

**Settings**  Save  Cancel

UI Timeout	<input type="text" value="20"/> (minutes)	Use Routing Engine	<input checked="" type="checkbox"/>
Lock Out	<input type="text" value="5"/> (attempts)	Use Store Connect	<input checked="" type="checkbox"/>
Tenant Logo	<input type="text" value="http://docs.oracle.com/cd/E68433_0"/> 	Use Vendor Portal	<input checked="" type="checkbox"/>
Account	<input type="text" value="locate"/>	Time Zone	<input type="text" value="America/New_York"/>

**Email Settings**

Email Template Path

**Retention Settings**

Report Files	<input type="text" value="1"/> (days)	Pack Slip Files	<input type="text" value="1"/> (days)
--------------	---------------------------------------	-----------------	---------------------------------------

**Data Folder Settings**

Product Import Files	<input type="text" value="/usr/share/OrderBroker/data/ProductUp"/>	Export Files	<input type="text" value="/usr/share/OrderBroker/data/ExportData"/>
Proximity Upload Files	<input type="text" value="/usr/share/OrderBroker/data/ProximityU"/>		

**Miscellaneous Settings**

Geocode Address

**Proxy Server Settings**

Proxy Address	<input type="text" value="www-proxy.us.oracle.com"/>	Proxy Port	<input type="text" value="80"/>
---------------	--	------------	---------------------------------

---

**Note:** You will also need to use the new **Schedule Jobs** screen (**Systems > Schedule Jobs**) to reschedule jobs. See the online help for more information.

---

## Store Connect Installation

1. Copy the `LocateSTC.war` from the `/StoreConnect/Deployments` folder to a staging area on the same server as WebLogic to deploy later to the Cluster in WebLogic. This step is not required on all servers in the cluster.
2. Deploy the `LocateSTC.war` from the staging area to the cluster:
  - Log into the Administration Console of WebLogic and deploy the `LocateSTC.war`.
  - Under the left navigation pane for Domain Structure:
    - \* Select **Deployments**.
    - \* Select **Lock & Edit** if needed to enable the **Install** button.
    - \* Select **Install**.
    - \* Under the Path, select the staging area where you placed the `LocateSTC.war` from the Deployments folder.
    - \* Select **Next**. The screen refreshes and displays `LocateSTC.war`.
    - \* Select the radio button under **Current Location** to select the `LocateSTC.war` file.
    - \* Select **Next**.
    - \* Leave the default: **Install this deployment as an application**.
    - \* Select the check box for your cluster as shown below and the **All servers in the cluster** radio button:
 

Clusters

      - cluster-name (where customer-name is the name of the cluster)
      - All servers in the cluster
    - \* Select **Next**.
    - \* Select **Finish**.
    - \* Select **Release Configuration** if you had to select **Lock & Edit** earlier; otherwise, select **Activate Changes**.
    - \* Select the **Control Tab** under **Summary of Deployments**.
    - \* Check the **LocateSTC** checkbox.

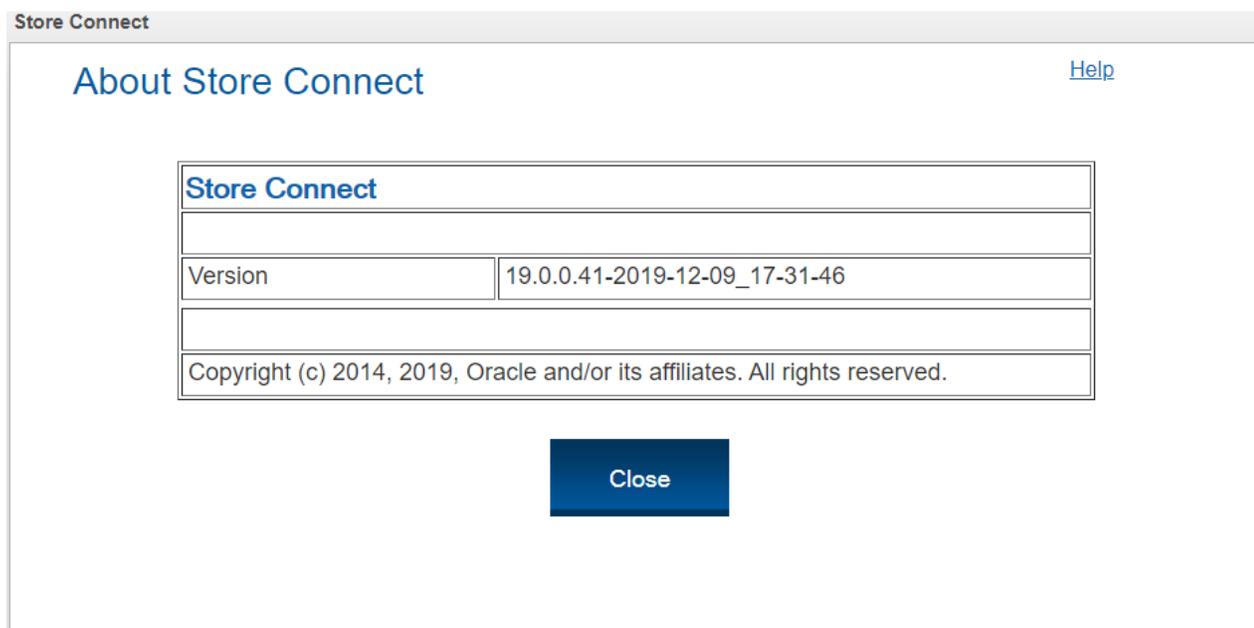
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Deployments' page, which includes a table of installed Java EE applications and standalone application modules. The table has columns for State, Health, Type, Targets, Scope, and Domain Partitions. The 'LocateSTC' application is selected, indicated by a checkmark in the 'Deployments' column. The left navigation pane shows the 'Domain Structure' tree with 'Deployments' selected. The top navigation bar includes 'Home', 'Log Out', 'Preferences', 'Record', and 'Help'.

Deployments	State	Health	Type	Targets	Scope	Domain Partitions
<input checked="" type="checkbox"/> LocateSTC	Active	OK	Enterprise Application	AdminServer, self-cluster	Global	
<input type="checkbox"/> LocateVPA	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> Locate	Active	OK	Enterprise Application	AdminServer	Global	
<input type="checkbox"/> em	Active	OK	Enterprise Application	AdminServer, self-cluster	Global	
<input type="checkbox"/> DMS Application (12.2.1.0.0)	Active	OK	Web Application	AdminServer, self-cluster	Global	
<input type="checkbox"/> sms	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	
<input type="checkbox"/> ipss-rest	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/> state-management-provider-memory-usr	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	

- \* Select the **Start** button.
- \* Select **Start/Service all requests**.

## Validate the Store Connect Installation

1. Launch Store Connect using the following URL:  
`https://server:port/LocateSTC`  
Where `server:port` is the IP address and port of the Order Broker server.
2. Verify that you can log in as a store associate user.
3. Select **About Store Connect** at the very bottom left of the screen.
4. At the **About Store Connect** window, confirm that the **Version** is set correctly.



# Supplier Direct Fulfillment (Vendor Portal) Installation

- Copy the `LocateVPA.war` from the `/Supplier Direct Fulfillment/Deployments` folder to a staging area on the same server as WebLogic to deploy later to the Cluster in WebLogic. This step is not required on all servers in the cluster.
  - Deploy the `LocateVPA.war` from the staging area to the cluster:
    - Log into the Administration Console of WebLogic and deploy `LocateVPA.war`.
    - Under the left navigation pane for Domain Structure:
      - \* Select **Deployments**.
      - \* Select **Lock & Edit** to enable the **Install** button if needed.
      - \* Select **Install**.
      - \* Under the Path, select the staging area where you placed the `LocateVPA.war` from the `Deployments` folder.
      - \* Select **Next**. The screen refreshes and displays `LocateVPA.war`.
      - \* Select the radio button under `Current Location` to select `LocateVPA.war`.
      - \* Select **Next**.
      - \* Leave the default: **Install this deployment as an application**.
      - \* Select the check box of the cluster as shown and **All servers in the cluster** radio button.
- Clusters
- cluster-name (where cluster-name is the name of the cluster)
  - All servers in the cluster
- \* Select **Next**.
  - \* Select **Finish**.
  - \* Select **Release Configuration** if you selected **Lock & Edit** earlier; otherwise, select **Activate Changes**.
  - \* Select the **Control Tab** under **Summary of Deployments**.
  - \* Check the **LocateVPA** checkbox.

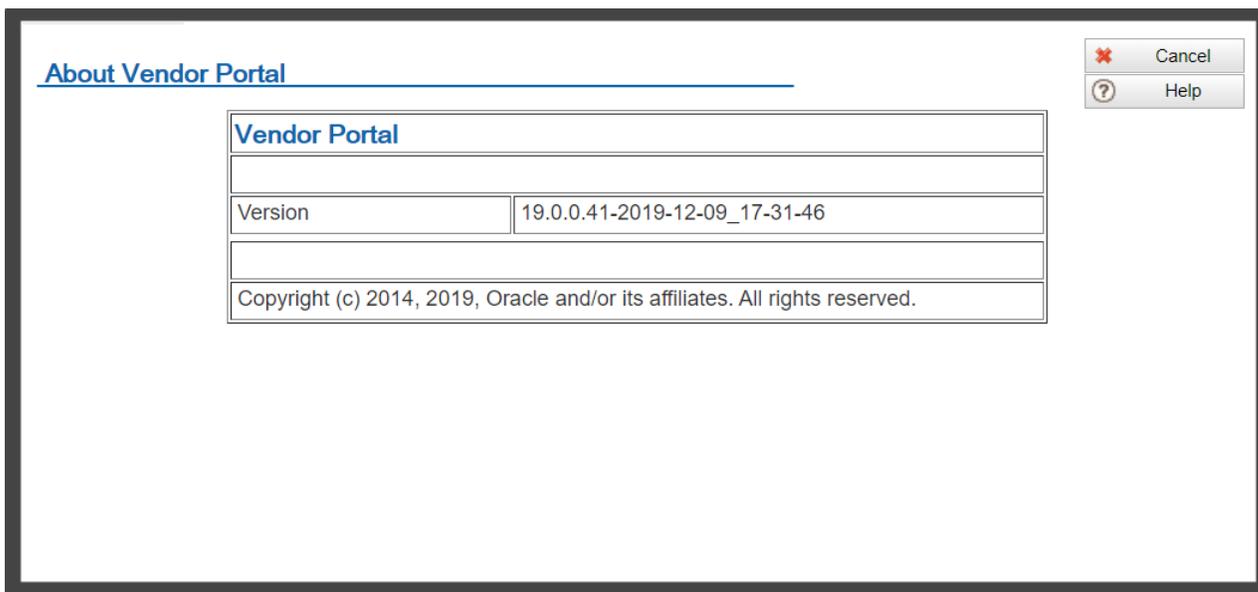
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of Deployments" and includes a "Control" tab. Below this, there is a table of deployments. The table has columns for State, Health, Type, Targets, Scope, and Domain Partitions. The "LocateVPA" application is selected, and its details are visible in the table.

State	Health	Type	Targets	Scope	Domain Partitions
Active	OK	Resource Adapter	AdminServer, adf-cluster	Global	
Active	OK	Web Application	AdminServer, adf-cluster	Global	
Active	OK	Enterprise Application	AdminServer	Global	
Active	OK	Enterprise Application	adf-cluster	Global	
Active	OK	Web Application	adf-cluster	Global	
Active	OK	Web Application	adf-cluster	Global	
Active	OK	Web Application	AdminServer	Global	
Active	OK	Resource Adapter	AdminServer, adf-cluster	Global	

- \* Select the **Start** button.
- \* Choose **Start/Servicing all requests**.

## Validate the Vendor Portal Installation

1. Launch the Vendor Portal using the following URL:  
`https://server:port/LocateVPA`  
Where `server:port` is the IP address and port of the Order Broker server.
2. Verify that you can log in as a vendor user.
3. Select **About > About Vendor Portal**. At the **About Vendor Portal** window, confirm that the **Version** is set correctly.



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# Time Zones

Available time zones are listed below.

ACT	AET
AGT	ART
AST	Africa/Abidjan
Africa/Accra	Africa/Addis_Ababa
Africa/Algiers	Africa/Asmara
Africa/Asmera	Africa/Bamako
Africa/Bangui	Africa/Banjul
Africa/Bissau	Africa/Blantyre
Africa/Brazzaville	Africa/Bujumbura
Africa/Cairo	Africa/Casablanca
Africa/Ceuta	Africa/Conakry
Africa/Dakar	Africa/Dar_es_Salaam
Africa/Djibouti	Africa/Douala
Africa/El_Aaiun	Africa/Freetown
Africa/Gaborone	Africa/Harare
Africa/Johannesburg	Africa/Juba
Africa/Kampala	Africa/Khartoum
Africa/Kigali	Africa/Kinshasa
Africa/Lagos	Africa/Libreville
Africa/Lome	Africa/Luanda
Africa/Lubumbashi	Africa/Lusaka
Africa/Malabo	Africa/Maputo
Africa/Maseru	Africa/Mbabane
Africa/Mogadishu	Africa/Monrovia
Africa/Nairobi	Africa/Ndjamena
Africa/Niamey	Africa/Nouakchott
Africa/Ouagadougou	Africa/Porto-Novo
Africa/Sao_Tome	Africa/Timbuktu
Africa/Tripoli	Africa/Tunis

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Africa/Windhoek	America/Adak
America/Anchorage	America/Anguilla
America/Antigua	America/Araguaina
America/Argentina/Buenos_Aires	America/Argentina/Catamarca
America/Argentina/ComodRivadavia	America/Argentina/Cordoba
America/Argentina/Jujuy	America/Argentina/La_Rioja
America/Argentina/Mendoza	America/Argentina/Rio_Gallegos
America/Argentina/Salta	America/Argentina/San_Juan
America/Argentina/San_Luis	America/Argentina/Tucuman
America/Argentina/Ushuaia	America/Aruba
America/Asuncion	America/Atikokan
America/Atka	America/Bahia
America/Bahia_Banderas	America/Barbados
America/Belem	America/Belize
America/Blanc-Sablon	America/Boa_Vista
America/Bogota	America/Boise
America/Buenos_Aires	America/Cambridge_Bay
America/Campo_Grande	America/Cancun
America/Caracas	America/Catamarca
America/Cayenne	America/Cayman
America/Chicago	America/Chihuahua
America/Coral_Harbour	America/Cordoba
America/Costa_Rica	America/Creston
America/Cuiaba	America/Curacao
America/Danmarkshavn	America/Dawson
America/Dawson_Creek	America/Denver
America/Detroit	America/Dominica
America/Edmonton	America/Eirunepe
America/EL_Salvador	America/Ensenada
America/Fort_Wayne	America/Fortaleza
America/Glace_Bay	America/Godthab
America/Goose_Bay	America/Grand_Turk
America/Grenada	America/Guadeloupe

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America/Guatemala	America/Guayaquil
America/Guyana	America/Halifax
America/Havana	America/Hermosillo
America/Indiana/Indianapolis	America/Indiana/Knox
America/Indiana/Marengo	America/Indiana/Petersburg
America/Indiana/Tell_City	America/Indiana/Vevay
America/Indiana/Vincennes	America/Indiana/Winamac
America/Indianapolis	America/Inuvik
America/Iqaluit	America/Jamaica
America/Jujuy	America/Juneau
America/Kentucky/Louisville	America/Kentucky/Monticello
America/Knox_IN	America/Kralendijk
America/La_Paz	America/Lima
America/Los_Angeles	America/Louisville
America/Lower_Princes	America/Maceio
America/Managua	America/Manaus
America/Marigot	America/Martinique
America/Matamoros	America/Mazatlan
America/Mendoza	America/Menominee
America/Merida	America/Metlakatla
America/Mexico_City	America/Miquelon
America/Moncton	America/Monterrey
America/Montevideo	America/Montreal
America/Montserrat	America/Nassau
America/New_York	America/Nipigon
America/Nome	America/Noronha
America/North_Dakota/Beulah	America/North_Dakota/Center
America/North_Dakota/New_Salem	America/Ojinaga
America/Panama	America/Pangnirtung
America/Paramaribo	America/Phoenix
America/Port-au-Prince	America/Port_of_Spain
America/Porto_Acre	America/Porto_Velho
America/Puerto_Rico	America/Rainy_River

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America/Rankin_Inlet	America/Recife
America/Regina	America/Resolute
America/Rio_Branco	America/Rosario
America/Santa_Isabel	America/Santarem
America/Santiago	America/Santo_Domingo
America/Sao_Paulo	America/Scoresbysund
America/Shiprock	America/Sitka
America/St_Barthelemy	America/St_Johns
America/St_Kitts	America/St_Lucia
America/St_Thomas	America/St_Vincent
America/Swift_Current	America/Tegucigalpa
America/Thule	America/Thunder_Bay
America/Tijuana	America/Toronto
America/Tortola	America/Vancouver
America/Virgin	America/Whitehorse
America/Winnipeg	America/Yakutat
America/Yellowknife	Antarctica/Casey
Antarctica/Davis	Antarctica/DumontDURville
Antarctica/Macquarie	Antarctica/Mawson
Antarctica/McMurdo	Antarctica/Palmer
Antarctica/Rothera	Antarctica/South_Pole
Antarctica/Syowa	Antarctica/Troll
Antarctica/Vostok	Arctic/Longyearbyen
Asia/Aden	Asia/Almaty
Asia/Amman	Asia/Anadyr
Asia/Aqtau	Asia/Aqtobe
Asia/Ashgabat	Asia/Ashkhabad
Asia/Baghdad	Asia/Bahrain
Asia/Baku	Asia/Bangkok
Asia/Beirut	Asia/Bishkek
Asia/Brunei	Asia/Calcutta
Asia/Chita	Asia/Choibalsan
Asia/Chongqing	Asia/Chungking

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Asia/Colombo	Asia/Dacca
Asia/Damascus	Asia/Dhaka
Asia/Dili	Asia/Dubai
Asia/Dushanbe	Asia/Gaza
Asia/Harbin	Asia/Hebron
Asia/Ho_Chi_Minh	Asia/Hong_Kong
Asia/Hovd	Asia/Irkutsk
Asia/Istanbul	Asia/Jakarta
Asia/Jayapura	Asia/Jerusalem
Asia/Kabul	Asia/Kamchatka
Asia/Karachi	Asia/Kashgar
Asia/Kathmandu	Asia/Katmandu
Asia/Khandyga	Asia/Kolkata
Asia/Krasnoyarsk	Asia/Kuala_Lumpur
Asia/Kuching	Asia/Kuwait
Asia/Macao	Asia/Macau
Asia/Magadan	Asia/Makassar
Asia/Manila	Asia/Muscat
Asia/Nicosia	Asia/Novokuznetsk
Asia/Novosibirsk	Asia/Omsk
Asia/Oral	Asia/Phnom_Penh
Asia/Pontianak	Asia/Pyongyang
Asia/Qatar	Asia/Qyzylorda
Asia/Rangoon	Asia/Riyadh
Asia/Saigon	Asia/Sakhalin
Asia/Samarkand	Asia/Seoul
Asia/Shanghai	Asia/Singapore
Asia/Srednekolymysk	Asia/Taipei
Asia/Tashkent	Asia/Tbilisi
Asia/Tehran	Asia/Tel_Aviv
Asia/Thimbu	Asia/Thimphu
Asia/Tokyo	Asia/Ujung_Pandang
Asia/Ulaanbaatar	Asia/Ulan_Bator

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Asia/Urumqi	Asia/Ust-Nera
Asia/Vientiane	Asia/Vladivostok
Asia/Yakutsk	Asia/Yekaterinburg
Asia/Yerevan	Atlantic/Azores
Atlantic/Bermuda	Atlantic/Canary
Atlantic/Cape_Verde	Atlantic/Faeroe
Atlantic/Faroe	Atlantic/Jan_Mayen
Atlantic/Madeira	Atlantic/Reykjavik
Atlantic/South_Georgia	Atlantic/St_Helena
Atlantic/Stanley	Australia/ACT
Australia/Adelaide	Australia/Brisbane
Australia/Broken_Hill	Australia/Canberra
Australia/Currie	Australia/Darwin
Australia/Eucla	Australia/Hobart
Australia/LHI	Australia/Lindeman
Australia/Lord_Howe	Australia/Melbourne
Australia/NSW	Australia/North
Australia/Perth	Australia/Queensland
Australia/South	Australia/Sydney
Australia/Tasmania	Australia/Victoria
Australia/West	Australia/Yancowinna
BET	BST
Brazil/Acre	Brazil/DeNoronha
Brazil/East	Brazil/West
CAT	CET
CNT	CST
CST6CDT	CTT
Canada/Atlantic	Canada/Central
Canada/East-Saskatchewan	Canada/Eastern
Canada/Mountain	Canada/Newfoundland
Canada/Pacific	Canada/Saskatchewan
Canada/Yukon	Chile/Continental
Chile/EasterIsland	Cuba

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EAT	ECT
EET	EST
EST5EDT	Egypt
Eire	Etc/GMT
Etc/GMT+0	Etc/GMT+1
Etc/GMT+10	Etc/GMT+11
Etc/GMT+12	Etc/GMT+2
Etc/GMT+3	Etc/GMT+4
Etc/GMT+5	Etc/GMT+6
Etc/GMT+7	Etc/GMT+8
Etc/GMT+9	Etc/GMT-0
Etc/GMT-1	Etc/GMT-10
Etc/GMT-11	Etc/GMT-12
Etc/GMT-13	Etc/GMT-14
Etc/GMT-2	Etc/GMT-3
Etc/GMT-4	Etc/GMT-5
Etc/GMT-6	Etc/GMT-7
Etc/GMT-8	Etc/GMT-9
Etc/GMT0	Etc/Greenwich
Etc/UCT	Etc/UTC
Etc/Universal	Etc/Zulu
Europe/Amsterdam	Europe/Andorra
Europe/Athens	Europe/Belfast
Europe/Belgrade	Europe/Berlin
Europe/Bratislava	Europe/Brussels
Europe/Bucharest	Europe/Budapest
Europe/Busingen	Europe/Chisinau
Europe/Copenhagen	Europe/Dublin
Europe/Gibraltar	Europe/Guernsey
Europe/Helsinki	Europe/Isle_of_Man
Europe/Istanbul	Europe/Jersey
Europe/Kaliningrad	Europe/Kiev
Europe/Lisbon	Europe/Ljubljana

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Europe/London	Europe/Luxembourg
Europe/Madrid	Europe/Malta
Europe/Mariehamn	Europe/Minsk
Europe/Monaco	Europe/Moscow
Europe/Nicosia	Europe/Oslo
Europe/Paris	Europe/Podgorica
Europe/Prague	Europe/Riga
Europe/Rome	Europe/Samara
Europe/San_Marino	Europe/Sarajevo
Europe/Simferopol	Europe/Skopje
Europe/Sofia	Europe/Stockholm
Europe/Tallinn	Europe/Tirane
Europe/Tiraspol	Europe/Uzhgorod
Europe/Vaduz	Europe/Vatican
Europe/Vienna	Europe/Vilnius
Europe/Volgograd	Europe/Warsaw
Europe/Zagreb	Europe/Zaporozhye
Europe/Zurich	GB
GB-Eire	GMT
GMT0	Greenwich
HST	Hongkong
IET	IST
Iceland	Indian/Antananarivo
Indian/Chagos	Indian/Christmas
Indian/Cocos	Indian/Comoro
Indian/Kerguelen	Indian/Mahe
Indian/Maldives	Indian/Mauritius
Indian/Mayotte	Indian/Reunion
Iran	Israel
JST	Jamaica
Japan	Kwajalein
Libya	MET
MIT	MST

Mexico/BajaSur	Mexico/General
NET	NST
NZ	NZ-CHAT
Navajo	PLT
PNT	PRC
PRT	PST
PST8PDT	Pacific/Apia
Pacific/Auckland	Pacific/Bougainville
Pacific/Chatham	Pacific/Chuuk
Pacific/Easter	Pacific/Efate
Pacific/Enderbury	Pacific/Fakaofu
Pacific/Fiji	Pacific/Funafuti
Pacific/Galapagos	Pacific/Gambier
Pacific/Guadacanal	Pacific/Guam
Pacific/Honolulu	Pacific/Johnston
Pacific/Kiritimati	Pacific/Kosrae
Pacific/Kwajalein	Pacific/Majuro
Pacific/Marquesas	Pacific/Midway
Pacific/Nauru	Pacific/Niue
Pacific/Norfolk	Pacific/Noumea
Pacific/Pago_Pago	Pacific/Palau
Pacific/Pitcairn	Pacific/Pohnpei
Pacific/Ponape	Pacific/Port_Moresby
Pacific/Rarotonga	Pacific/Saipan
Pacific/Samoa	Pacific/Tahiti
Pacific/Tarawa	Pacific/Tongatapu
Pacific/Truk	Pacific/Wake
Pacific/Wallis	Pacific/Yap
Poland	Portugal
ROK	SST
Singapore	Turkey
US/Alaska	US/Aleutian
US/Arizona	US/Central

US/East-Indiana

US/Hawaii

US/Michigan

US/Pacific

US/Samoa

Universal

W-SU

Zulu

US/Eastern

US/Indiana-Starke

US/Mountain

US/Pacific-New

UTC

VST

WET